

## 2020 AWWA Water Audit Level 1 Validation – Review Document

### Audit Information:

**Utility:** Carmichael Water District      **PWS ID:** CA3410004  
**System Type:** Potable      **Audit Period:** Calendar 2020  
**Utility Representation:** Chris Nelson (Public Information Officer), Matthew Medill  
**Validation Date:** 8/20/2021      **Call Time:** 10:00am      **Sufficient Supporting Documents Provided:** Yes

### Validation Findings & Confirmation Statement:

#### Key Audit Metrics:

**Data Validity Score:** 78    **Data Validity Band (Level):** Band IV (71-90)  
**ILI:** 2.7      **Real Loss:** 39.31 (gal/conn/day)      **Apparent Loss:** 16.38 (gal/conn/day)  
**Non-revenue water as percent of cost of operating system:** 1.9%

#### Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

### Validator Information:

**Water Audit Validator:** Larry Lewison, Will Jernigan      **Validator Qualifications:** Certified Water Audit Validator (CA)

Validator Provided

## 2020 AWWA Water Audit Level 1 Validation

**Water System Name:** Carmichael Water District **Water System ID Number:** CA3410004 **Water Audit Period:** Calendar 2020

### Water Audit & Water Loss Improvement Steps:

Steps taken in preceding 3 years to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

- Performed annual leak detection
- Completed annual supply meter testing and calibration / conducted residential meter accuracy testing
- Investigate cost and feasibility of pressure monitoring station installations for inclusion in future capital improvement budgets
- Implemented water line replacement CIP projects

### Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Cathy Lee

General Manager



9/28/2021

Executive Name (Print)

Executive Position

Signature

Date

Utility Provided